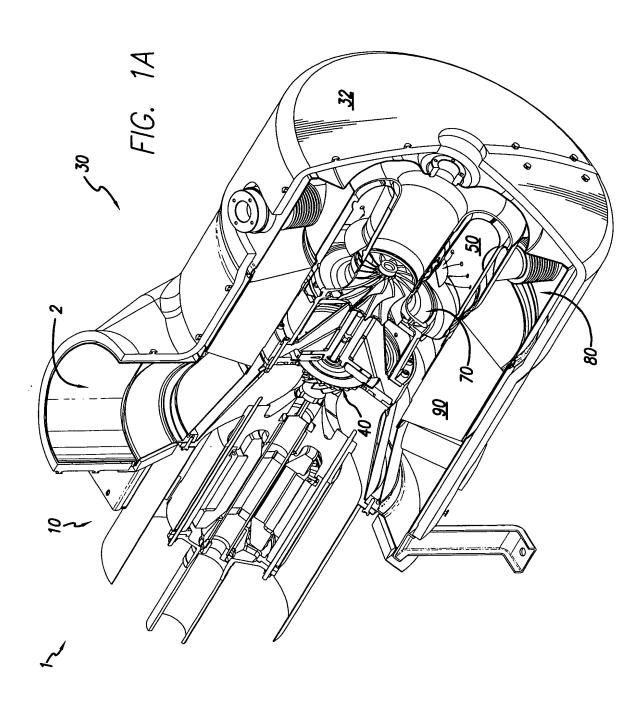


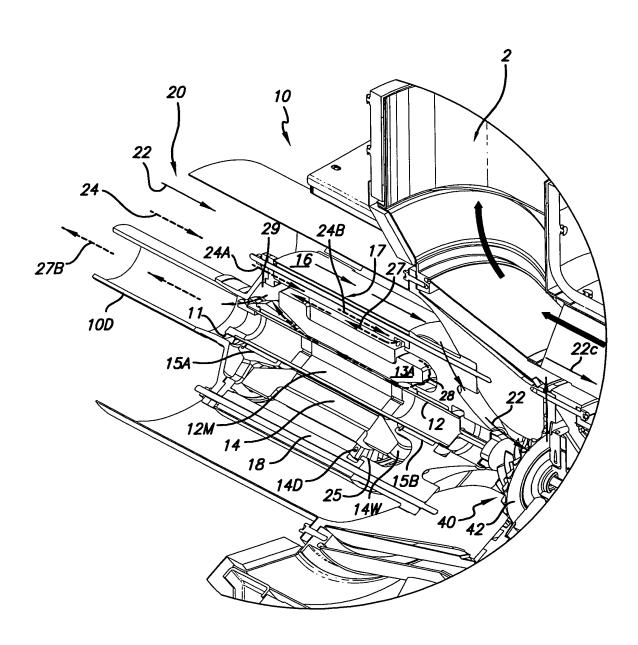
OBLON, SPIVAK, ET AL DOCKET #: 213114US-22 INV: Simon R. WALL SHEET 1 OF 14



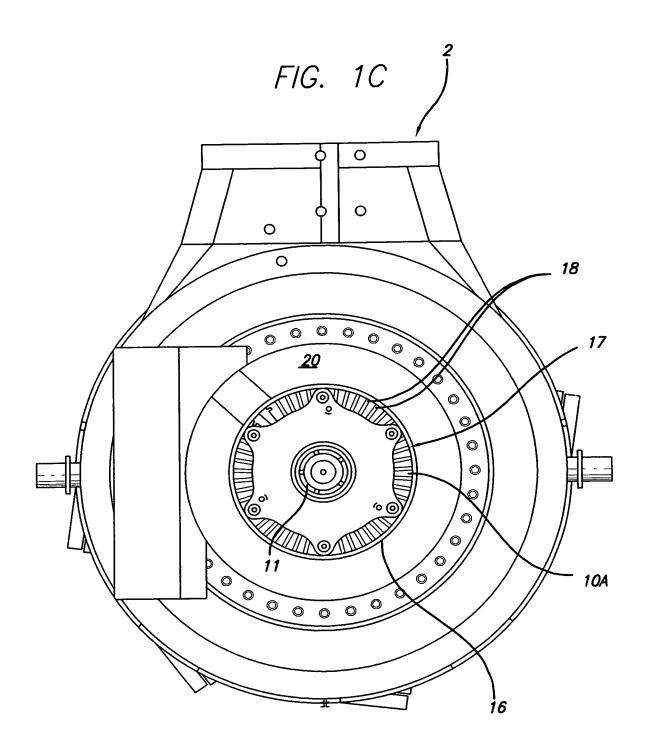


OBLON, SPIVAK, ET AL DOCKET #: 213114US-22 INV: Simon R. WALL SHEET 2 OF 14

FIG. 1B

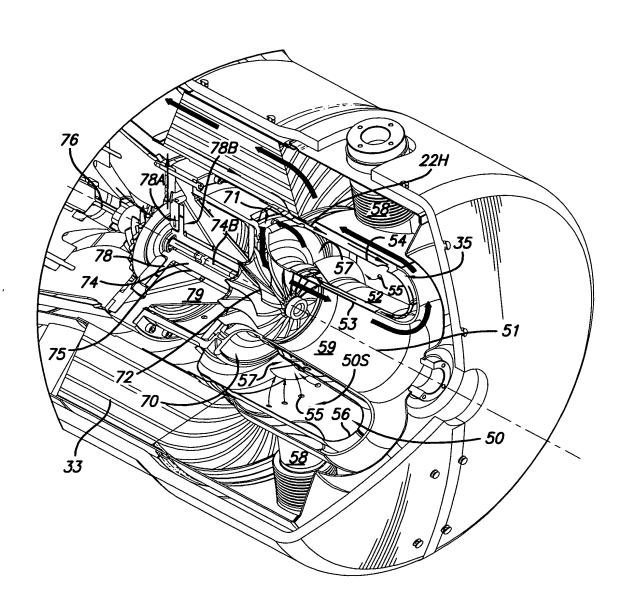


OBLON, SPIVAK, ET AL OOCKET #: 213114US-22 INV: Simon R. WALL SHEET 3 OF 14

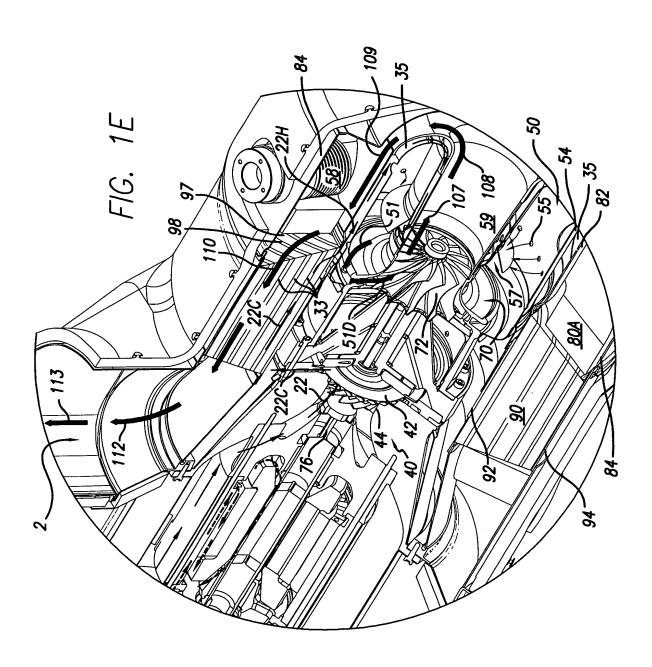


OBLON, SPIVAK, ET AL DOCKET #: 213114US-22 INV: Simon R. WALL SHEET 4 OF 14

FIG. 1D

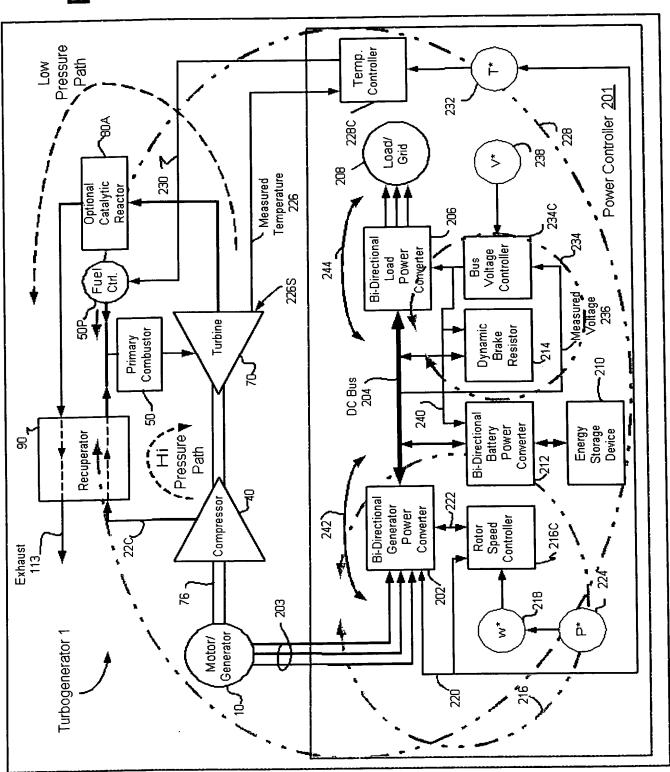


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OBLON, SPIVAK, ET AL DOCKET #: 213114US-22 INV: Simon R. WALL SHEET <u>6</u> OF <u>14</u>





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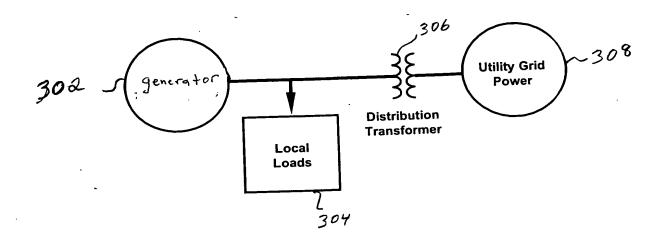


Figure 3

OBLON, SPIVAK, ET AL
DOCKET #: 213114US-22
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SHEET 8_OF 14_

electric power system

source of generation

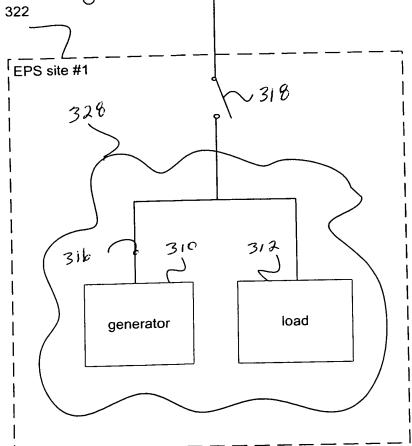
325

326

320

327

328



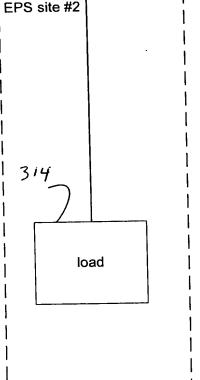


FIGURE 4

OBLON, SPIVAK, ET AL DOCKET #: 213114US-22 INV: Simon R. WALL SHEET 9 OF 14

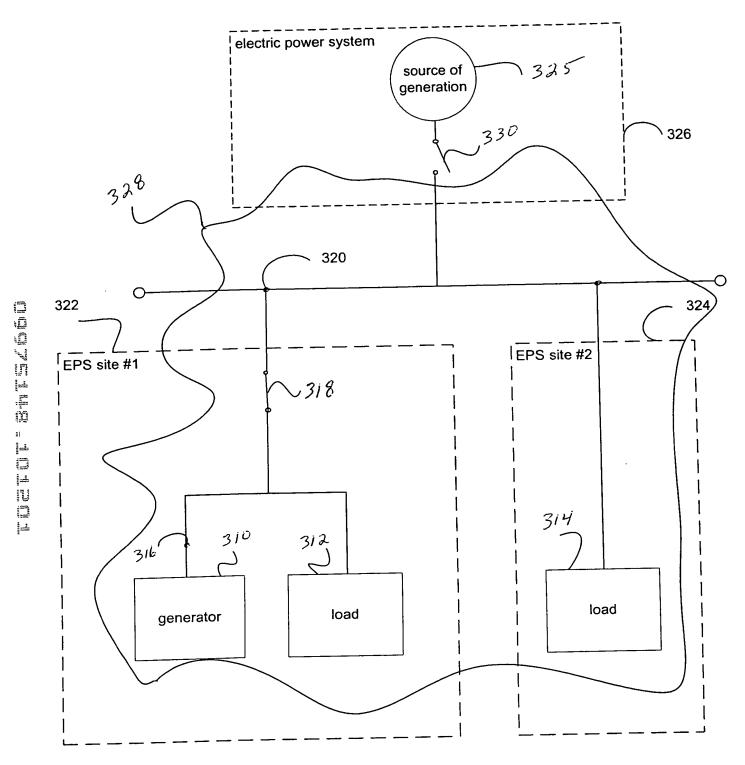
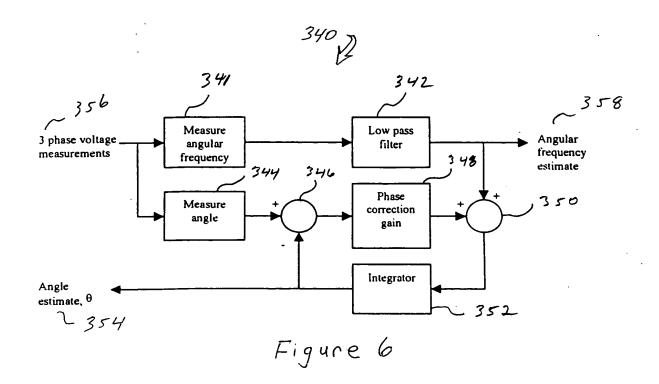
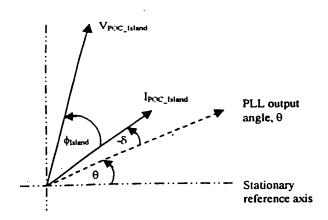


FIGURE 5

OBLON, SPIVAK, ET AL DOCKET #: 213114US-22 INV: Simon R. WALL SHEET 10 OF 14





Islanded DR generator current magnitude at the POC (A) I_{POC_Island} Islanded voltage magnitude at the POC (V) V_{POC_Island} Impedance magnitude of the island looking into the POC (Ω) Z_{lsland} Impedance phase-angle of the island looking into the POC (radians) φ_{Island} Demanded real power output of the DR generator (W) P_{DRG} Demanded reactive power output of the DR generator (lagging is positive) (VAr) **Q**DRG Angle output from the PLL (radians) θ Demanded current phase angle, $\delta = \tan^{-1}(Q_{DRG}/P_{DRG})$ (radians) δ

Figure 7

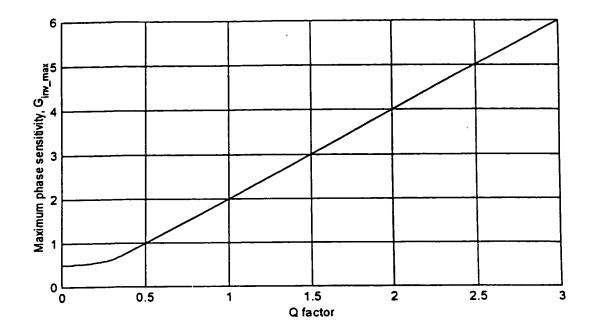


Figure 8

OBLON, SPIVAK, ET AL
DOCKET #: 213114US-22
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SHEET 12 OF 14

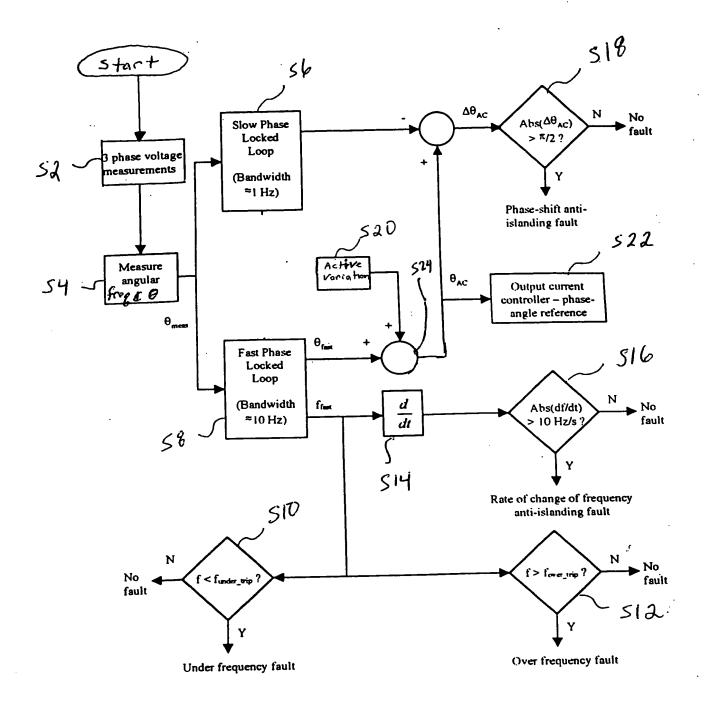


Figure 9A

OBLON, SPIVAK, ET AL DOCKET #: 213114US-22 INV: Simon R. WALL SHEET 13 OF 14

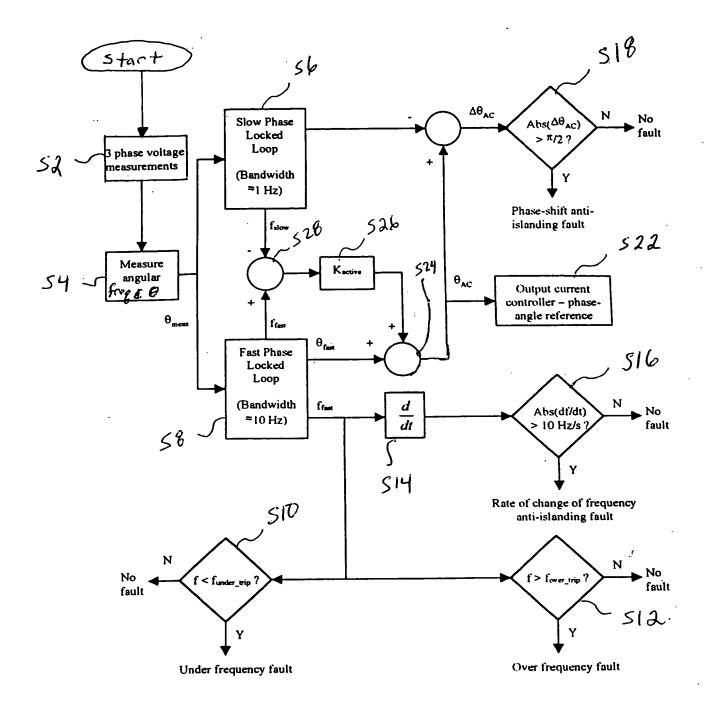
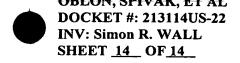


Figure 9B



١,

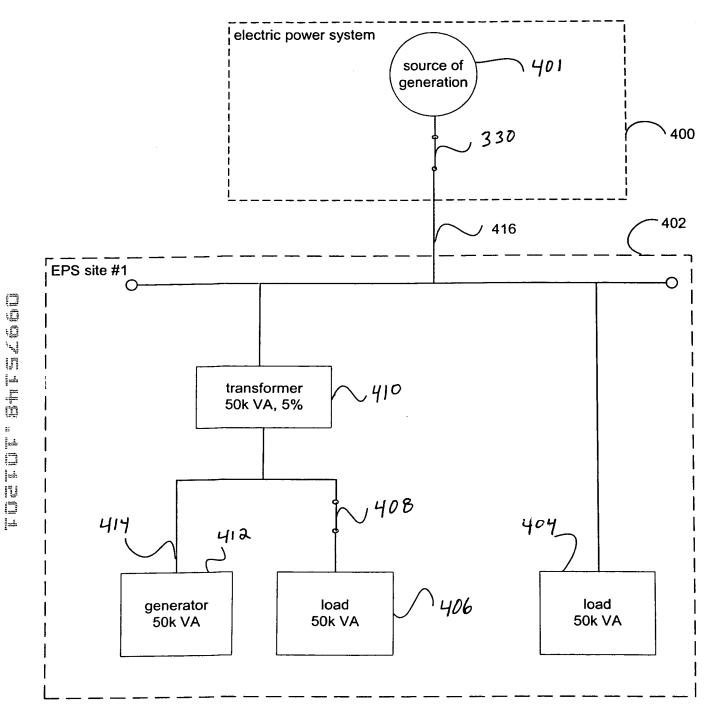


Figure 10